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WO 2004/013327

PCT/EP2003/007765

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## SEQUENCE LISTING

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<120> Method for the expression of unknown environmental DNA  
into adapted host cells.

<130> B0149WO

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<170> PatentIn Ver. 2.1

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: DNA sequence  
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ccgttcatcg tgtacacgtt caccgcgcctc tcgggtgtt gggatcttct agactcgacc 37380  
tgcaggcatg caagcttgcg tattctatacg tctcacctaa atagcttgc gtaatcatgg 37440  
tcatacgatgt ttccgtgtt aaattgttat ccgtcacaa ttcacacaac atacgagccg 37500  
gaagcat 37507

<210> 3  
<211> 26  
<212> DNA  
<213> Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Sense primer.

&lt;400&gt; 3

ggsccksks tsdcsrtsga yacsgc

26

&lt;210&gt; 4

&lt;211&gt; 23

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Antisense  
primer.

&lt;400&gt; 4

gcbbsryyt cdatsggrtc scc

23

&lt;210&gt; 5

&lt;211&gt; 773

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: OriT derived  
from plasmid RP4.

&lt;400&gt; 5

gatctgtat gtacttcacc agtcccgca agtcgtctt ctgtatggg ggcgtatggg 60  
acgtgtttgg caatcacgca cacccccccgg ccgttttagc ggctaaaaaa gtcatggctc 120  
tgccctcgaa cggaccacgc ccatcatgac cttgccaagc tcgtcctgct tctcttcgt 180  
cttcggccacg aggccgagga togtggcatt accgaaccgc gccgtgcgcg ggtcgctcg 240  
gagcccaaggat ttccggccggc cggccaggcg gcccaggatcg ccattgtatcg gggccaggctc 300  
gcccggacgtgc tcatagtcca cggccggccgt gattttgtatcg cccatggccga cggccaggcg 360  
gtaggccgac aggctcatgc cggccggccgc cgcctttcc tcaatcgctc ttctgttcgtc 420  
tggaaaggccat tacaccttga taggtggcgt gccccttcgt gttggcttgg tttcatcagc 480  
catcccgcttgc ccctcatctg ttacggccggc ggttagccggc cagcctcgca gagcaggatt 540  
cccggttggcc accggccaggat gcaataagg gacagtgaag aaggaacacc cgctcgccgg 600  
tggccctact tcacccatcc tgccctggctg acggccgttgg atacaccaag gaaagtctac 660  
acgaaccctt tggcaaaaatc ctgtatcatcg tggcaaaaag gatggatata ccgaaaaat 720  
cgctataatg accccgaagc agggttatgc agcggaaaag atccgtcgaa tct 773

&lt;210&gt; 6

&lt;211&gt; 2012

&lt;212&gt; DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Psi C31  
integrase.

<400> 6

agatctcccg tactgacgga cacaccgaag ccccgccggc aaccctcagc ggatgccccg 60  
gggcttcacg tttcccaagg tcagaagcgg ttttgcggag tagtgcggca actgggtaa 120  
cctttgagtt ctctcagttg gggcgtagg gtcgcccaca tgacacaagg ggttgtgacc 180  
gggggtggaca cgtacgcggg tgcttacgac cgtcagtgcgc gcgagcgcga gaattcgagc 240  
gcagcaagcc cagcgacaca gcgtacgcgc aacgaagaca aggccgcccga ctttcagcgc 300  
gaagtgcgac gcgacggggg ccggttcagg ttcgtcggc atttcagcga agcgcggggc 360  
acgtcggcgt tcgggacggc ggagcgcggc gagttcaac gcatctgaa cgaatgcgc 420  
gccggggggc tcaacatgtat cattgtctat gacgtgtgcgc gcttctcgcg cctgaaggc 480  
atggacgcga ttccgattgt ctccgaaatttgcgtccgcgtacgat tgtttccact 540  
caggaaggcg tcttccggca gggaaacgtc atggacctga ttcacctgat tatgcggcgc 600  
gacgcgtgc acaaagaatac ttcgctgaag tcggcgaaga ttctcgacac gaagaacctt 660  
cagcgcgaaat tgggcgggta cgtcggcggg aaggcgcctt acggcttca gcttggcgt 720  
gagacgaagg agatcacgcg caacggccga atggtaatcg tgcgtcatcaa caagcttgcg 780  
cactcgacca ctccccttac cgaccccttc gagttcgacgc ccgacgtaat ccgggtggc 840  
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gccatggaca agctgtactt cgttggcgttca gccgttcatgc ctgcgttacgc ccggggaaagaa 1320  
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cagcacgaag gcacgttca cgttggcgttca gccgttcatgc ctgcgttacgc ccggggaaagaa 1440  
atcttcaaca agatcaggca cggccaaaggc gacgaagaga ctttggcgttca tctgtggaa 1500  
gccggccgac gtttggcaaa gtcactgag ggcgttca gacgcggcga acggggcaac 1560  
cttggcgttca agcgcgttca cggccgttca gccgttcatgc ctgcgttacgc agaccgcgc 1620  
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aaatcttccccc ttgaccaatg gtcccccggaa gacgcgttca gtcgttccgttca gggcccttaag 1920  
gcttcgttca cgttggcgttca gccgttca gacgcggcga acggggcaac 1980  
acgaaagacg tagcggcgttca gcgagacacc 2012

<210> 7

<211> 94

<212> DNA

<213> Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Left arm of  
pPAOI6 transposon.

&lt;400&gt; 7

ctgtctctta tacacatctc aaccatcatc gatgaatttt ctcgggtgtt ctcgcatttt 60  
ggctcgaatt cgagctcggt accc 84

&lt;210&gt; 8

&lt;211&gt; 94

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Rigth arm of  
pPAOI6 transposon.

&lt;400&gt; 8

gatcctcttag agtcgacctg caggcatgca agcttgccaa cgactacgca ctagccaaca 60  
agagttcag ggttgagatg tgtataagag acag 94

&lt;210&gt; 9

&lt;211&gt; 31

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Primer AmF.

&lt;400&gt; 9

ccctaagatc tggttcatgt gcagctccat c 31

&lt;210&gt; 10

&lt;211&gt; 34

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Primer AmR.

&lt;400&gt; 10

tagtacccgg ggatccaacg tcatctcggtt ctcc 34

&lt;210&gt; 11

<211> 32  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer OriTF.

<400> 11  
gcggtagatc tgtgatgtac ttcaccagct cc

32

<210> 12  
<211> 37  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer OriTR.

<400> 12  
tagtaccggg ggatccgacg gatctttcc gctgcat

37

<210> 13  
<211> 32  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer Fint.

<400> 13  
aacaaagatc tcccgactg acggacacac cg

32

<210> 14  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer PJ.

<400> 14  
cgggtgtctc gcatgccgc t

21

<210> 15

<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer  
amyE-BamHI

<400> 15  
atccgcaggat cctgaggact ctgcgaacccg

30

<210> 16  
<211> 37  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer  
amyE-EcoRI

<400> 16  
cgtactgaatt cagatcttagc gtgtaaatcc cgtagtgc

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